

CLAIMS LISTING

1. (original) Image storage screen or panel comprising a binderless needle-shaped stimulable phosphor of CsBr:Eu, wherein amounts of Eu-dopant are in the range of from 100 up to 400 p.p.m. versus CsBr, and a substrate, and wherein said substrate has a surface roughness of less than 2 μm and a reflectivity of more than 80%.
2. (original) Image storage screen or panel according to claim 1, wherein said binderless needle-shaped stimulable phosphor has from 100 up to 200 p.p.m. of Eu-dopant versus CsBr.
3. (original) Screen or panel according to claim 1, wherein said reflectivity is at least 90%.
4. (original) Screen or panel according to claim 2, wherein said reflectivity is at least 90%.
5. (original) Screen or panel according to claim 1, wherein said reflectivity is at least 95%.
6. (original) Screen or panel according to claim 2, wherein said reflectivity is at least 95%.
7. (original) Screen or panel according to claim 1, wherein said substrate has a surface roughness of less than 1 μm .

- 8.(original) Screen or panel according to claim 2, wherein
said substrate has a surface roughness of less than 1 μm .
- 9.(original) Screen or panel according to claim 3, wherein
said substrate has a surface roughness of less than 1 μm .
- 10.(original) Screen or panel according to claim 4, wherein
said substrate has a surface roughness of less than 1 μm .
- 11.(original) Screen or panel according to claim 5, wherein
said substrate has a surface roughness of less than 1 μm .
- 12.(original) Screen or panel according to claim 6, wherein
said substrate has a surface roughness of less than 1 μm .
- 13.(original) Screen or panel according to claim 1, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.
- 14.(original) Screen or panel according to claim 2, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.
- 15.(original) Screen or panel according to claim 3, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.
- 16.(original) Screen or panel according to claim 4, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.

17.(original) Screen or panel according to claim 5, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.

18.(original) Screen or panel according to claim 6, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.

19.(original) Screen or panel according to claim 7, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.

20.(original) Screen or panel according to claim 8, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.

21.(original) Screen or panel according to claim 9, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.

22.(original) Screen or panel according to claim 10, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.

23.(original) Screen or panel according to claim 11, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.

24.(original) Screen or panel according to claim 12, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.

25.(original) Screen or panel according to claim 13, wherein
said reflecting layer is a metal layer.

26.(original) Screen or panel according to claim 14, wherein
said reflecting layer is a metal layer.

27.(original) Screen or panel according to claim 13, wherein
said reflecting layer is an aluminum layer.

28.(original) Screen or panel according to claim 14, wherein
said reflecting layer is an aluminum layer.

29.(currently amended) A Use of a screen or panel according to
claim 1, in a system for computed radiography comprising an
image screen or panel of claim 1.

30.(currently amended) A Use of a screen or panel according to
claim 2, in a system for computed radiography comprising an
image screen or panel of claim 2.

31.(currently amended) A Use of a screen or panel according to
claim 3, in a system for computed radiography comprising an
image screen or panel of claim 3.

32.(currently amended) A Use of a screen or panel according to
claim 4, in a system for computed radiography comprising an
image screen or panel of claim 4.

33. (currently amended) A Use of a screen or panel according to
claim 5, in a system for computed radiography comprising an
image screen or panel of claim 5.
34. (currently amended) A Use of a screen or panel according to
claim 6, in a system for computed radiography comprising an
image screen or panel of claim 6.
35. (currently amended) A Use of a screen or panel according to
claim 7, in a system for computed radiography comprising an
image screen or panel of claim 7.
36. (currently amended) A Use of a screen or panel according to
claim 8, in a system for computed radiography comprising an
image screen or panel of claim 8.
37. (currently amended) A Use of a screen or panel according to
claim 9, in a system for computed radiography comprising an
image screen or panel of claim 9.
38. (currently amended) A Use of a screen or panel according to
claim 10, in a system for computed radiography comprising an
image screen or panel of claim 10.
39. (currently amended) A Use of a screen or panel according to
claim 11, in a system for computed radiography comprising an
image screen or panel of claim 11.

40. (currently amended) A Use of a screen or panel according to
claim 12, in a system for computed radiography comprising an
image screen or panel of claim 12.

41. (currently amended) A Use of a screen or panel according to
claim 13, in a system for computed radiography comprising an
image screen or panel of claim 13.

42. (currently amended) A Use of a screen or panel according to
claim 14, in a system for computed radiography comprising an
image screen or panel of claim 14.

43. (currently amended) A Use of a screen or panel according to
claim 15, in a system for computed radiography comprising an
image screen or panel of claim 15.

44. (currently amended) A Use of a screen or panel according to
claim 16, in a system for computed radiography comprising an
image screen or panel of claim 16.

45. (currently amended) A Use of a screen or panel according to
claim 17, in a system for computed radiography comprising an
image screen or panel of claim 17.

46. (currently amended) A Use of a screen or panel according to
claim 18, in a system for computed radiography comprising an
image screen or panel of claim 18.

47. (currently amended) A Use of a screen or panel according to
claim 19, in a system for computed radiography comprising an
image screen or panel of claim 19.
48. (currently amended) A Use of a screen or panel according to
claim 20, in a system for computed radiography comprising an
image screen or panel of claim 20.
49. (currently amended) A Use of a screen or panel according to
claim 21, in a system for computed radiography comprising an
image screen or panel of claim 21.
50. (currently amended) A Use of a screen or panel according to
claim 22, in a system for computed radiography comprising an
image screen or panel of claim 22.
51. (currently amended) A Use of a screen or panel according to
claim 23, in a system for computed radiography comprising an
image screen or panel of claim 23.
52. (currently amended) A Use of a screen or panel according to
claim 24, in a system for computed radiography comprising an
image screen or panel of claim 24.
53. (currently amended) A Use of a screen or panel according to
claim 29, in mammographic applications comprising the
system for computed radiography of claim 29.

54. (currently amended) A Use of a screen or panel according to
claim 30, in mammographic applications comprising the
system for computed radiography of claim 30.

55. (currently amended) A Use of a screen or panel according to
claim 31, in mammographic applications comprising the
system for computed radiography of claim 31.

56. (currently amended) A Use of a screen or panel according to
claim 32, in mammographic applications comprising the
system for computed radiography of claim 32.

57. (new) A process for obtaining an image comprising:
exposing said image screen or panel of claim 1 with image
radiation attenuated by an object or emitted by an
object;
storing said image radiation as stored radiation on said
image screen or panel;
exposing said image screen or panel to stimulating rays to
release said stored radiation as light;
collecting said light;
converting said light into electrical signals; and
producing an image from said electrical signals wherein
said image corresponds to said image radiation.